

**VADOplex**® by OPED  
FOOT PUMP SYSTEM

## User manual

### OPED – to make you stay mobile

OPED is specialized in medical technology that gets patients back on their feet more quickly after injury. We care for patients with a whole range of orthopedic rehabilitation products. All orthoses are developed and manufactured in Germany. With a great spirit of innovation, OPED is working to ensure that doctors can offer their patients optimum care with highly functional treatment concepts.



**OPED**

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**OPED**

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Connecting tubes  
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#### Rear side

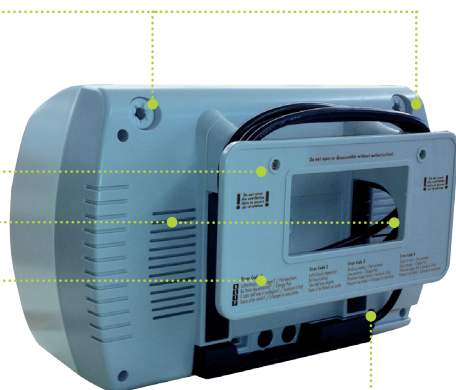
Two tube connections  
to the garments (pads)

Transport handle  
and bed mounting

Ventilation slots

Information on  
error messages 1-4

Supply cable connection



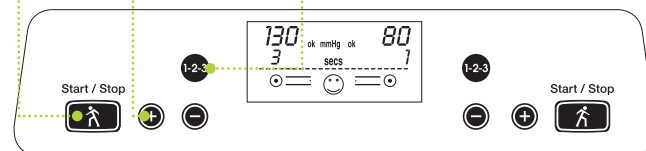
## Control panel

### Control panel buttons

Start/Stop  
button

Individual pressure  
adjustment

Mode button

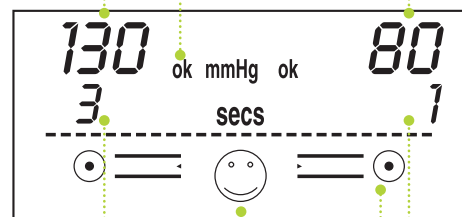


### Displayed information

Pressure setting  
Left side

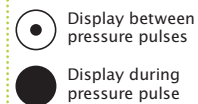
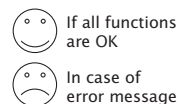
OK: displayed as soon  
as set pressure is

Pressure setting  
Right side



Application time in  
seconds, left side

Application time in  
seconds, right side

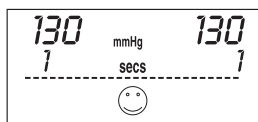


### Getting started

1. Plug the two connecting tubes into the corresponding sockets at the rear side of the device, one on the left and one on the right.
2. Plug the supply cable into a power socket.
3. Attach the VADOPLEX garments (pads) and make sure that they are positioned properly (see user manual supplied with pressure sleeves). The pads are to be used for one patient only and may neither be used for several patients nor refurbished.

## Control panel

- Connect the transparent tubes of the VADOpnex pads to the connecting tubes of the VADOpnex device
- Switch on the device with the toggle switch at the front and wait until the following is displayed:



- Press the start/stop button to start the therapy. By pressing the start/stop button during therapy, you can interrupt the procedure for a break. Pressing the button again reactivates the device.

Set mode via

1-2-3

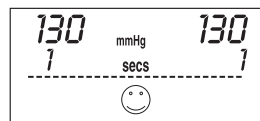
Individual pressure regulation with



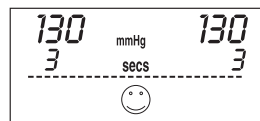
With the 1-2-3 button, you can choose from 3 basic modes:

### Standard mode

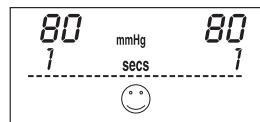
130 mmHg for 1 second  
for application at the foot



130 mmHg for 3 seconds  
for application at the foot  
in case of arterial circulatory disorders



80 mmHg for 1 second  
for application at the hand



The factory set standard mode is 130 mmHg for 1 second.

**Always chose the modes by pressing the 1-2-3 button only!**

If you want to delete your settings, simply switch off the device with the toggle switch and then switch it back on.

## Indications

### Indications and therapy time

The VADOpnex system is designed in a way that makes misapplication impossible. It is equally suitable for specialist staff in hospitals as well as for application at home, with the patient or his relatives using the system themselves.

### Indication

### Recommended application time

For quick drainage of acute edema of the upper and lower extremities (e. g. post traumatic and postoperative)

post traumatic: continuous  
(with breaks if required)

postoperative: 6 to 8 hours daily  
(with breaks if required)

Especially suitable for fractures in the area of the ankle and wrist

After compartment syndrome

Shoulder injuries and surgery

For quick drainage of chronic edema of the legs and arms (e. g. chronic lymphedema, chronic venous insufficiency)

At least 4 hours per day  
with breaks if required  
over several weeks

For compartment prophylaxis in case of serious soft tissue damage

Continuous, without breaks

Prevention of deep vein thrombosis; when used solely (e. g. in case of HIT or heparin intolerance)

At least 11 hours per day, gradually reducing the application time until full load is possible

Prevention of deep vein thrombosis; as additional measure to anticoagulant drugs or for low-risk patients

At least 6 hours per day in the high-risk phase, gradually reducing the application time until full load is possible

Chronic recurrent ulcers cruris (arterial, venous, mixed)

At least 4 hours per day  
with breaks if required  
over several weeks

Venous congestion

Diabetic foot syndrome / ulcers

At least 4 hours per day  
with breaks if required  
over several weeks

Peripheral artery occlusive disease (PAOD) and arterial circulatory disorders of the extremities

At least 4 hours per day, with breaks if required over several weeks

## Contraindications:

For the following types of patients, risks and benefits have to be assessed:

Patients whose heart could be impaired by an increased reverse current, patients with decompensated cardiac insufficiency, acute deep leg vein thrombosis or pulmonary embolism as well as thrombophlebitis or massive infections of the extremities treated. If you have any question, please ask your doctor.

## Alarms / trouble shooting

### Error code 1

Air tube disconnected? / exchange pad

### Error code 2

Air tube bent?

### Error code 3

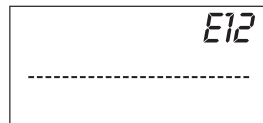
Pressure too low – exchange pad

### Error code 4

Pressure too high – exchange pad

If “ERROR CODE 1-12” appears on the display, the device has to be inspected by an authorized technician.

Example error code 12 = operating temperature too high



## Application note

Do not expose the VADOplex device to extreme temperatures, water or humidity. Do not drop the device and do not use force trying to open it. Should one of these events happen, have the device inspected by an authorized service technician.

Opening the housing or exposing the device to humidity/dampness creates a risk of electric shock.

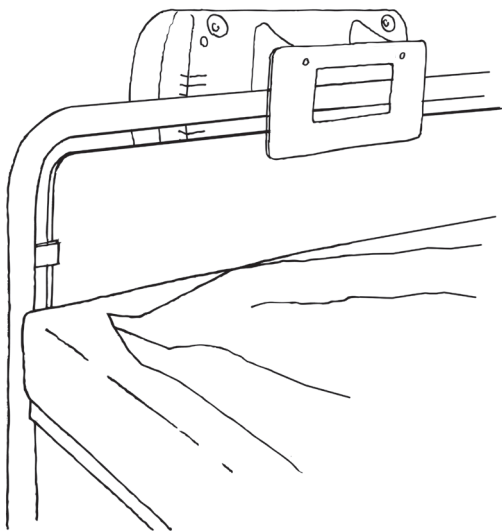
Using the device near inflammable gases can cause explosive incidents. Do not place the device in the circumference of such gases.

The device may only be used with the pads intended.

The pads have to be disposed of properly by medical staff.

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### Attaching the VADOplex at the hospital bed



## Cleaning, maintenance and technical service

Only employees, who have undergone the corresponding technical training from the manufacture are authorized to open the device and perform maintenance tasks.

The VADOplex system has to be maintained every 3.000 operating hours or at least once a year. During maintenance, the hardware and software of the device is inspected, wear parts are checked and, if applicable, exchanged or cleaned. This inspection requires special training to ensure smooth operation of the VADOplex systems.

Thus, maintenance tasks and technical procedures at the VADOplex system may only be performed by authorized technicians. Otherwise, the manufacturer does not assume any responsibility for the use and effect of the VADOplex system.

The user/patient does not have to clean the device. This is done by the service staff during maintenance/repair.

The VADOplex system does not have to be sterilized.

You can simply wipe the housing and connection tubes with common disinfectants.

On request, the manufacturer can supply circuit diagrams, spare parts lists and other documents for use by qualified expert staff!

## Useful details

### Technical data

|                      |           |
|----------------------|-----------|
| SMPG class           | III A     |
| Protection class     | I, type B |
| CE certification No. | CE 0123   |



### Rating

|                                      |                                                   |
|--------------------------------------|---------------------------------------------------|
| Input:                               | 230 V ~ , 50 Hz, 0.4 A                            |
| Power supply:                        | Manufactured by<br>Mean Well Enterprises Co., Ltd |
| Power supply model:                  | PD-25B                                            |
| Fuses:                               | T1A x 20 mm                                       |
| DIMDI No.                            | 10-969 in accordance with UMDNS                   |
| Classification                       | UMDNS<br>compression device<br>intermittent       |
| Code of the<br>authority responsible | DE CA 61 (Upper Bavaria)                          |

This device is not intended for continuous use.  
EMC tested in accordance with IEC 60601-1-2.

### Environmental conditions for transport/storage

- Temperature range: -20 °C to 60 °C
- Relative humidity: up to 95 % without condensation
- Ambient pressure: 700 hPa to 1.060 hPa

### Environmental conditions during operation

- Temperature range: 10 °C to 40 °C
- Relative humidity: up to 95 % without condensation
- Ambient pressure: 700 hPa to 1.060 hPa

## Useful Details

### Device dimensions

|                       |                |
|-----------------------|----------------|
| Height:               | 23 cm, overall |
| Depth without handle: | 15.5 cm        |
| Width:                | 35 cm          |
| Weight:               | 4.3 kg         |

### Warranty and guarantee

For the VADOpnex system, a guarantee period of 1 year after delivery to the hospital or distributor is granted.



Before opening the device, unplug the power supply.



The device meets all requirements of the applicable EU guidelines.



Type B applied part.



Observe accompanying documents!



The product and its packaging may not be disposed of as household waste, but has to be sent back to the manufacturer for disposal.

## Safety notes

**Do not use the VADOplex system without having received a technical instruction on its use!**

- Before switching the device on to using it for therapy, make sure to read and understand the manual and test the application of the device. Always be aware of the limits and risks when using the device. Make sure to observe all preventive safety and operation instructions attached to the device.
- Pay special attention when using the device on or in the presence of children.
- Do not use the VADOplex system for purposes other than those described in this manual.
- Never pull at the cable to disconnect the device from the power supply but always take the cable at its plug.
- Make sure to have the device switched off before leaving it unsupervised.
- When carrying, transporting and storing the VADOplex system, take care not to damage the system by dropping it or by transporting or storing it incorrectly.
- Make sure that the device is properly electrically grounded by ensuring that it is only connected to a grounded power supply fulfilling the applicable national and local electrical regulations.
- Do not use the VADOplex system outside or on wet surfaces.
- Do not use the VADOplex system in the circumference of flammable anesthetic mixtures with air, oxygen or nitrous oxide. Make sure that the device is positioned on a solid and flat surface providing the necessary stability when in use.
- Parts of the device could burn or catch fire if exposed to an ignition source.
- Do not smoke during use of the VADOplex system and do not expose it to open fires.
- The VADOplex system is designed in a way protecting it from being affected by incontinence. Nonetheless, preventive measures to avoid the device from coming into contact with fluids should be taken.
- Always make sure to unplug the supply cable before maintenance and cleaning tasks are performed. Not unplugging it could cause electric shock or injuries.
- Only use the device if it is dry and only if your hands are dry to avoid the risk of electric shock due to humidity.
- Do not use the VADOplex system as a toy.
- The openings on the device rear side are for ventilation purposed and protect the device from overheating. It is thus not permitted to cover these openings.